

# SAFETY DATA SHEET

## Sterillium Gel

Version	Revision Date:	SDS Number:	Date of last issue: 07.05.2018
1.7	22.10.2018	R11090	Date of first issue: 25.03.2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sterillium Gel

Product code : R11090

#### Manufacturer or supplier's details

Manufacturer : BODE Chemie GmbH  
Melanchthonstraße 27  
22525 Hamburg  
Tel.: +49 (0)40 / 54 00 60

Supplier :

Responsible Department : Scientific Affairs  
Kundenservice@SIDA-BODE-CHEMIE.de

Emergency telephone number : Giftnotruf Göttingen  
24h-Phone +49 (0)551 / 1 92 40

#### Recommended use of the chemical and restrictions on use

Recommended use : In-door use  
Hand Sanitizer  
Human hygiene biocidal products  
For further information, refer to the product technical data sheet.

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 2

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.

Precautionary statements : P102 Keep out of reach of children.

#### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

#### Disposal:

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P501 Dispose of contents/ container to an approved waste disposal plant. Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Ethanol	64-17-5	$\geq 70 - < 90$
tetradecanol	112-72-1	$\geq 0,1 - < 1$

### 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (show the label where possible).

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.

If swallowed : Rinse mouth.  
Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed : Tiredness  
Eye irritation  
Light-headedness  
giddiness

Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : none

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Use water spray to cool unopened containers.  
Standard procedure for chemical fires.

Special protective equipment for firefighters : Use personal protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

**Sterillium Gel****7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.  
Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.
- Advice on safe handling : Keep away from heat.
- Conditions for safe storage : Store at room temperature in the original container.
- Materials to avoid : Keep away from food and drink.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	STEL	1.000 ppm	ACGIH

**Personal protective equipment**

- Protective measures : No special protective equipment required.
- Hygiene measures : Keep away from food and drink.  
Do not get in eyes.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : viscous
- Colour : colourless
- Odour : alcohol-like
- pH : No data available
- Melting point/range : not determined
- Boiling point/boiling range : > 35 °C
- Flash point : 17,1 °C  
Method: ISO 3679
- Flammability (solid, gas) : not auto-flammable
- Lower explosion limit / Lower flammability limit : Lower flammability limit  
83 g/m<sup>3</sup>  
Method: DIN 51649
- Vapour pressure : No data available
- Density : 0,83 g/cm<sup>3</sup> (20 °C)
- Solubility(ies)  
Water solubility : partly miscible
- Viscosity  
Viscosity, dynamic : 4.000 - 8.000 mPa.s ( 20 °C)  
Method: ISO 2555  
Brookfield DVII+, RV5

**Sterillium Gel****10. STABILITY AND REACTIVITY**

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	The product is chemically stable.
Possibility of hazardous reactions	:	None reasonably foreseeable.
Conditions to avoid	:	Heat, flames and sparks. Strong sunlight for prolonged periods.
Incompatible materials	:	None.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity****Components:****Ethanol** (CAS: 64-17-5):

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 51 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

**tetradecanol** (CAS: 112-72-1):

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

**Skin corrosion/irritation****Product:**

Result: No skin irritation

**Components:****Ethanol** (CAS: 64-17-5):

Species: human skin

Result: Mild skin irritation

Remarks: Based on available data, the classification criteria are not met.

**tetradecanol** (CAS: 112-72-1):

Method: OECD Test Guideline 404

Result: No skin irritation

**Serious eye damage/eye irritation****Product:**

Result: No eye irritation

**Components:****Ethanol** (CAS: 64-17-5):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritating to eyes.

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### **tetradecanol** (CAS: 112-72-1):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritating to eyes.

### **Respiratory or skin sensitisation**

#### **Product:**

Result: Does not cause skin sensitisation.

Result: Does not cause respiratory sensitisation.

#### **Components:**

### **Ethanol** (CAS: 64-17-5):

Species: Mouse

Method: OECD Test Guideline 429

Result: Does not cause skin sensitisation.

### **tetradecanol** (CAS: 112-72-1):

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

### **STOT - single exposure**

No data available

### **STOT - repeated exposure**

No data available

### **Repeated dose toxicity**

No data available

### **Aspiration toxicity**

No data available

### **Experience with human exposure**

No data available

### **Toxicology, Metabolism, Distribution**

No data available

### **Neurological effects**

No data available

**Sterillium Gel****12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Ethanol** (CAS: 64-17-5):

- Toxicity to fish : LC50 (Fish): 13.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 12.340 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**tetradecanol** (CAS: 112-72-1):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0016 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211
- M-Factor (Chronic aquatic toxicity) : 1

**Persistence and degradability****Components:****Ethanol** (CAS: 64-17-5):

- Biodegradability : Remarks: Readily biodegradable, according to appropriate OECD test.

**tetradecanol** (CAS: 112-72-1):

- Biodegradability : Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Contaminated packaging : Empty remaining contents.  
Store containers and offer for recycling of material when in accordance with the local regulations.

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**14. TRANSPORT INFORMATION****ADR**

- UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION  
Class : 3  
Packing group : II  
Labels : 3  
Hazard Identification Number : 33  
Tunnel restriction code : (D/E)

**UNRTDG**

- UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION  
Class : 3  
Packing group : II  
Labels : 3

**IATA-DGR**

- UN/ID No. : UN 1170  
Proper shipping name : Ethanol solution  
Class : 3  
Packing group : II  
Labels : Class 3 - Flammable Liquid  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

**IMDG-Code**

- UN number : UN 1170  
Proper shipping name : ETHANOL SOLUTION
- Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-D  
Marine pollutant : no

**Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

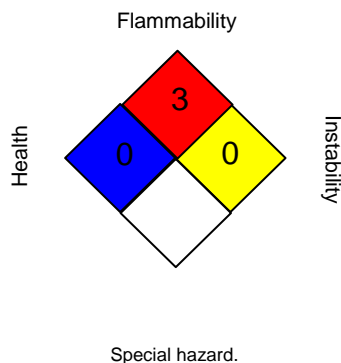
### 16. OTHER INFORMATION

#### Safety datasheet sections which have been updated:

- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 12. Ecological information
- 15. Regulatory information

#### Further information

##### NFPA:



##### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		3
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH / STEL : Short-term exposure limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the Eu-



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European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

TC / EN